

BE-1A

MONDAY 8-23-10

Show in "shorthand" (base/exponent) form:

① $x \cdot x \cdot x \cdot x$

② $5 \cdot 5 \cdot 5 \cdot a \cdot a \cdot a \cdot a \cdot b \cdot b \cdot c$

Convert to a per cent:

③ 0.84

④ 0.051

Evaluate:

⑤ 8^2

⑥ 2^7

* Lesson from homework - show work

"No work, no credit"

⑤ $11^3 = 11 \cdot 11 \cdot 11$
 $= 121 \cdot 11$
 $= \boxed{1331}$

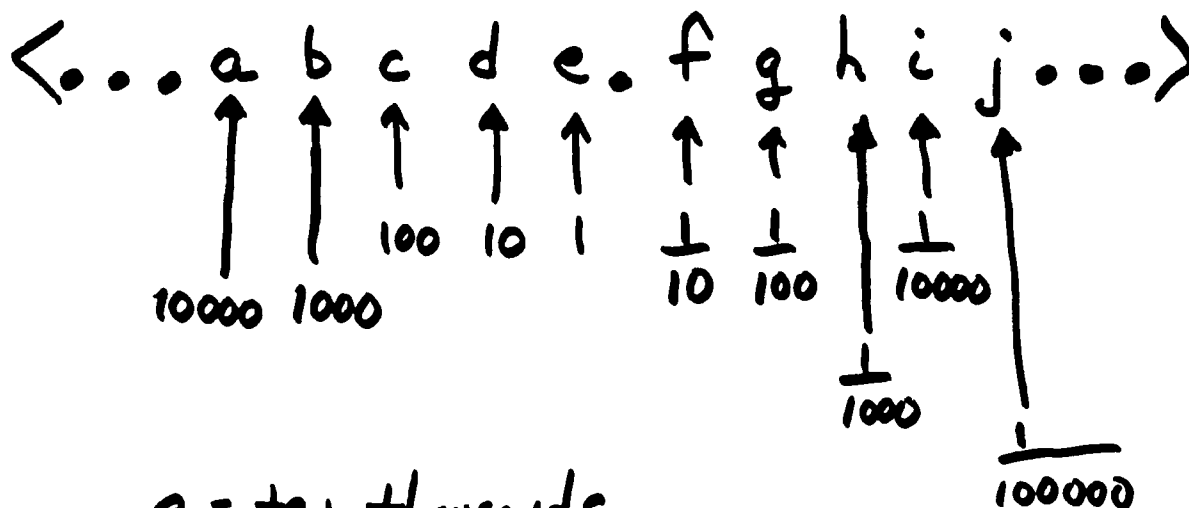
$$\begin{array}{r} 121 \\ \times 11 \\ \hline 121 \\ 121 \\ \hline 1331 \end{array}$$

⑥ NOT $11^3 = \boxed{1331}$

Return/review graded HW & Quiz! NOTE: M/U Quizzes

PLACE VALUE

NAME EACH PLACE VALUE



a = ten thousands

b = thousands

c = hundreds

d = tens

e = ones

f = tenths

g = hundredths

h = thousandths

$$\begin{array}{rcl}
 426.5 & = & 4 \text{ hundreds} = 400 \\
 & & 2 \text{ tens} = 20 \\
 & & 6 \text{ ones} = 6 \\
 & & 5 \text{ tenths} = \frac{5}{10} = \frac{1}{2} \\
 & & \hline
 & & 426\frac{1}{2} \\
 & & \text{or} \\
 & & 426.5
 \end{array}$$

WRITE AS A FRACTION:

$$0.2 = \frac{2}{10} = \frac{1}{5}$$

$$0.31 = \frac{31}{100}$$

$$4.506 = 4\frac{506}{1000} = 4\frac{253}{500}$$

NAME THE PLACE VALUE OF
the underlined number:

5026.458 tens

5026.458 thousandths

5026.458 tenths

5026.458 ten thousands

WRITE AS A decimal:

$$\frac{2}{10}$$

$$\frac{4}{1000}$$

$$\frac{24}{100}$$

Grouping Symbols

() PARENTHESES

* KNOW
HOW TO
SPELL

[] BRACKETS

{ } BRACES

* KNOW HOW
TO DRAW

_____ FRACTION BAR, USED TO
SHOW BOTH DIVISION
AND GROUPING

"NESTED" Grouping Symbols $\Rightarrow$ means
a grouping symbol inside ANOTHER.

Preferred order of nesting:

{ [()] }

Working with decimals: PAY ATTENTION
TO WHERE THE DECIMAL POINT IS —
Keep IT LINED UP — keep your
columns straight and of equal width.

(EX) $12.6 + 2.5 \Rightarrow$

$$\begin{array}{r} 12.6 \\ + 2.5 \\ \hline 15.1 \end{array}$$

(EX) $15 - 2.63 \Rightarrow$

$$\begin{array}{r} 15.00 \\ - 2.63 \\ \hline 12.37 \end{array}$$

↑
ADD THE DECIMAL
POINT AND AS MANY
ZEROS AS YOU NEED

(EX) $14.27 \div 4.9 = 2.91$

$$\begin{array}{r} 002.912 \\ 4.9 \overline{) 14.270000} \\ \underline{98} \\ 447 \\ \underline{441} \\ 60 \\ \underline{49} \\ 110 \end{array}$$

💡 CARRY OUT TO
MATCH QUESTION

💡 TIP
MAKE
DECIMAL
SAME
AMOUNT